

Sequences of the (+) strand

complete forms:

Seq.

GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACU--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC B11
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAGU-----AAAACU--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC G2
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACU--UAAGUCCGAAGGUAAACCAAUCCUGC--ACGUACCACUGUCGGUUCAC E12
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACA--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC B7
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACG--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC A8
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACUUGUAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC B12
GGAGCUCAGACUUDCACUCUCGUGUG---AGGCAAU-----AAAACU--UAAGUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC E3
GGAGCUCAGACUUDCACUCUCGUGUGUGGCA-----AAAAC--GUAAGACCGAAGGUAAACCAUCCUAC--ACGUACCACUGUCGGUUCAC C12
GGAGCUCAGACUUDCACUCUCGUGUG---AGGUAUAAA-----AAAAC--GUAUUAUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC C11
GGAGCUCAGACUUDCACUCUCGUGUG---AGGUAUAAA-----AAAAC--GUAUUAUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC A3
GGAGCUCAGACUUDCACUCUCGUGUG---AGGUAUAAA-----AAAAC--GUAUUAUCCGAAGGUAAACCAAGUCCUAC--ACGUACCACUGUCGGUUCAC F5
GGAGCUCAGACUUDCACUCUCGUGUG---AGGUAUAAA-----AAAAC--GUAUUAUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC A12
GGAGCUCAGACUUDCACUCUCGUGUG---AGGUAUAAA-----AAAAC--GUAUUAUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC F12
GGAGCUCAGACUUDCACUCUCGUGUG---AGGUAUAAA-----AAAAC--GUAUUAUCCGAAGGUAAACCAAUCCUAC--ACGUACCACUGUCGGUUCAC G5

GGAGCUCAGACUUDCACUCUG

DE.40F-Primer (Seq. ID No. 35)

CGUACCACUGUCGGUUCAC

DE.40R-Primer (rev. und
compl.) (Seq. ID No. 36)

Primer moieties underlined and in bold

Fig. 13-1

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core forms:		Seq. ID.	
CGUGAGGGCAUAAAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	B11	8	
CGUGAGGGCAUAAAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	G2	10	
CGUGAGGGCAUAAAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	E12	12	
CGUGAGGGCAUAAAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	B7	14	
CGUGAGGGCAUAAAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	A8	16	
CGUGAGGGCAUAAAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	B12	18	
CGUGAGGGCAUAAAAACUUAAGUCCGAAGGUAACCAAUCCUACACG	E3	20	
CGUGCGGAGGGCAAAAAACGUAAGACCGAAGGUAACCAUCCUACCCACG	C12	22	
CGUGAGGGUAGUAAAAAACAACGUAUCCGAAGGUAACCAAUCCUACACG	C11	24	
CGUGAGGGUAGUAAAAAACAACGUAUCCGAAGGUAACCAAUCCUACACG	A3	26	
CGUGAGGGUAGUAAAAAACAACGUAUCCGAAGGUAACCAAUCCUACACG	F5	28	
CGUGAGGGUAGUAAAAAACAACGUAUCCGAAGGUAACCAAUCCUACACG	A12	30	
CGUGAGGGUAGUAAAAAACAACGUAUCCGAAGGUAACCAAUCCUACACG	F12	32	
CGUGAGGGUAGUAAAAAACAACGUAUCCGAAGGUAACCAAUCCUACACG	G5	34	

Fig. 13 -2

Sequences derived from the RNA selection (round 13)

Seq. RNA round 13

ID. group1

1.1 main clone

'SOT-R04-DR13-E5

GGAGCTCAGACTTCACCTCGTCCGGTGAGGCAGACG-TAAGACCGAAGGTAACCATTCCTACCCACGTAACCACTGTCCGGTTCCAC

group2

2.1 main clone

'SOT-R04-DR13-A2

GGAGCTCAGACTTCACCTCGTCCGGTGAGGCTAACG-TAAGACCGAAGGTAACCATTCCTACCCACGTAACCACTGTCCGGTTCCAC

variations of 2.1

'SOT-R04-DR13-C4

GGAGCTCAGACTTCACCTCGTCCGGTGAGGCTAACG-TAAGACCGAAGGTAACCATTCCTACCCACGTAACCACTGTCCGGTTCCAC

group3

3.1 main clone

'SOT-R04-DR13-C1

GGAGCTCAGACTTCACCTCGTCCGGTGAGGTAATAAAC-TAATCCGAAGGTAACCAATCCTAC--ACGTACCACTGTCCGGTTCCAC

group4

4.1 main clone

'SOT-R04-DR13-G2

GGAGCTCAGACTTCACCTCGTCCGGTACCGTTATAAAGGGAGTCCTGCAGACTGATGCCAGGCCACGTACCACTGTCCGGTTCCAC

Fig. 22

Sequences derived from the RNA selection (round 14)

Seq. RNA round 14

ID. group1

1.1 (main clone)

43 'SOT-R04-DR14-F7 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAGA--CGTAGACCGAGGTAACCATTCCTACCCAGTACCACCTGTGCGTTCCAC

variations of clone 1.1

1.2

44 'SOT-R04-DR14-C11 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAAA--CGTAGACCGAGGTAACCATTCCTACCCAGTACCACCTGTGCGTTCCAC

1.3

45 'SOT-R04-DR14-A8 GGAGCTCAGACTTCACCTCGTGGGTGAGGCTAA--CGTAGACCGAGGTAACCATTCCTACCCAGTACCACCTGTGCGTTCCAC

1.4

46 'SOT-R04-DR14-C12 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAAAACGTAGACCGAGGTAACCATTCCTACCCAGTACCACCTGTGCGTTCCAC

group3

3.1 (main clone)

47 'SOT-R04-DR14-C7 GGAGCTCAGACTTCACCTCGTGGGTGAGGTAATAAACC--TAAATCCGAGGTACCAATCCTAACGTACCACCTGTGCGTTCCAC

variations of clone 3.1

1.2

48 'SOT-R04-DR14-E11 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAGTAACACTT--AAGTCCGAGGTACCAATCCTAACGTACCACCTGTGCGTTCCAC

1.3

49 'SOT-R04-DR14-H11 GGAGCTCAGACTTCACCTCGTGGGTGAGGCAATTAACTTG--AAGTCCGAGGTACCAATCCTAACGTACCACCTGTGCGTTCCAC

1.4

50 'SOT-R04-DR14-E8 GGAGCTCAGACTTCACCTCGTGGGTGAGGCATATAAAGTGTAAAGTCCGAGGTACCAATCCTAACGTACCACCTGTGCGTTCCAC

Fig. 23

Sequences derived from the 2'F-RNA selection (round 14)

Seq. 2'-F-RNA round 14

ID. group1

1.1 (main clone)

51	'SOT-F03-DR14-G6	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCT-CATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
mutations of clone 1.1		
52	'SOT-F03-DR14-F2	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACCTTTCT--CATAGTGCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
53	'SOT-F03-DR14-F4.	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACCTTTCT---ATAGTGCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
54	'SOT-F03-DR14-D5	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCTC-CATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
55	'SOT-F03-DR14-G3	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCTC-CAAACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
56	'SOT-F03-DR14-B5	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTT-CTC-CATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
57	'SOT-F03-DR14-C2	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACCTTTCTC-CATAGGTCGC--CAACGTACCACCTGTCGGTTCCAC</u>
58	'SOT-F03-DR14-F3	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCTT-CATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
59	'SOT-F03-DR14-B6	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGATTGAGACGTTTC---CATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
60	'SOT-F03-DR14-H1	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACCTTTTC----ATAGTGCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
61	'SOT-F03-DR14-F6	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTT---CATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
62	'SOT-F03-DR14-B1	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGT--C---CATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
63	'SOT-F03-DR14-C1	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTCTCCATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>
64	'SOT-F03-DR14-H5	<u>GGAGCTCAGACTTCACCTCGTGGGAATAGGAATGACTCAGACGTTTTC-CATACGTCGCCGCAACGTACCACCTGTCGGTTCCAC</u>

Fig. 24 - 1

Seq. **group2**

ID. 2.1 (main clone)

65 'SOT-F03-DR14-G5 GGAGCTCAGACTTCACCTCGTGCCTTTCTGTTAGCTGCCGACGTCAGTGGGCACGAGATACGTACCACCTGTCGGTTCCAC

variations of clone 2.1

2.2

66 'SOT-F03-DR14-D3 GGAGCTCAGACTTCACCTCGTGCCTTTCTGTTAGCTGCTGACCGTCAGTGGGCACGAGATACGTACCACCTGTCGGTTCCAC

2.3

67 'SOT-F03-DR14-H2 GGAGCTCAGACTTCACCTCGTGCCTTTCTGTTAGCT-CCGACCGTCAGTGGGCACGAGATACGTACCACCTGTCGGTTCCAC

2.4

68 'SOT-F03-DR14-D1 GGAGCTCAGACTTCACCTCGTGCCTTTCTGTTAGCT-CAGACCGTCAGTGGGCACGAGATACGTACCACCTGTCGGTTCCAC

2.5

69 'SOT-F03-DR14-A2 GGAGCTCAGACTTCACCTCGTGCCTTT-TGTTAGCT-CAGACCGTCAGTGGGCACGAGATACGTACCACCTGTCGGTTCCAC

2.6

70 'SOT-F03-DR14-G2 GGAGCTCAGACTTCACCTCGTGCCTTTCT-AGCTCTTAACCGACCGTGGGCACGAG-ACGTACCACCTGTCGGTTCCAC**group3**

3.1 main clone

71 'SOT-F03-DR14-H6 GGAGCTCAGACTTCACCTCGTGCCTTTATTTGTAGGAGCTTGAGCCGACACTGGGACGTACCACCTGTCGGTTCCAC

Fig. 24-2:

Sequences derived from the 2'F-RNA selection (round 15)

Seq. 2'-F-RNA round 15

ID. group1

72	1.1 (main clone) 'SOT-F03-DR15-G10	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACGTTTCT-CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
73	1.2 'SOT-F03-DR15-G7	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACGTTTCT-CAAACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
74	1.3 'SOT-F03-DR15-F10	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACGTTTC--CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
75	1.4 'SOT-F03-DR15-D9	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACGTTTC-----ATGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
76	1.5 'SOT-F03-DR15-F12	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACGTTT---CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
77	'SOT-F03-DR15-G12	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACGTTT---CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
78	1.6 'SOT-F03-DR15-H7	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACGTT-C--CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
79	1.7 'SOT-F03-DR15-A11	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACCTTTC--CATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
80	1.8 'SOT-F03-DR15-A8	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACCTTTTCT-CATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
81	1.9 'SOT-F03-DR15-F8	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACGTTTCTCTCATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
82	1.10 'SOT-F03-DR15-C9	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGGCGCTTTCTTTCATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
83	1.11 'SOT-F03-DR15-C12	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACCCAGACGTTTTC--CATACGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
84	1.12 'SOT-F03-DR15-F7	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACCTTTTTC--CATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>
85	1.13 'SOT-F03-DR15-A12	<u>GGAGCTCAGACTTTCACCTCGTGGAAATAGGAATGACTCAGACCTTTTTT-CATAGGT-CGCCGCAACGTACCACTGTCTGGTTCCAC</u>

group2

86	2.1 'SOT-F03-DR15-C7	<u>GGAGCTCAGACTTTCACCTCGTGGCTTTCTGTAGTGGCGACCGTCAGTGGCGCACGAGATACGTACCACTGTCTGGTTCCAC</u>
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Fig. 25: